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WHAT IS CLAIMED IS:

1. A compound of the formula:

$$R^{5}$$
 R^{6}
 R^{7}
 R^{8}
 R^{9}
 R^{10}
 R^{11}

wherein X is selected from the group consisting of: O, N-OR^a, N-NR^aR^b and C₁₋₆ alkylidene, wherein said alkylidene group is unsubstituted or substituted with a group selected from hydroxy, amino, O(C₁₋₄alkyl), NH(C₁₋₄alkyl), or N(C₁₋₄alkyl);

 R^1 is selected from the group consisting of hydrogen, $C_{1\text{-}6}$ alkyl, $C_{2\text{-}6}$ alkenyl, and $C_{2\text{-}6}$ alkynyl, wherein said alkyl, alkenyl and alkynyl groups are either unsubstituted or substituted with a group selected from OR^c , SR^c , NR^bR^c , $C(=O)R^c$, $C(=O)CH_2OH$, or phenyl, wherein said phenyl group can either be unsubstituted or substituted with 1-3 substituents independently selected from the group consisting of $C_{1\text{-}4}$ alkyl, OH, $O(C_{1\text{-}4}$ alkyl), $NH(C_{1\text{-}4}$ alkyl), $NH(C_{1\text{-}4}$ alkyl)2, halo, CN, NO_2 , CO_2H , $CO_2(C_{1\text{-}4}$ alkyl), C(O)H, and $C(O)(C_{1\text{-}4}$ alkyl);

 R^2 is selected from the group consisting of hydrogen, hydroxy, iodo, $O(C=O)R^c$, $C(=O)R^c$, CO_2R^c ,

or \mathbb{R}^1 and \mathbb{R}^2 , when taken together with the carbon atom to which they are attached, form a carbonyl group;

wherein said alkylidene group is either unsubstituted or substituted with a group selected from the group consisting of hydroxy, O(C₁-4alkyl), N(C₁-4alkyl)₂, and phenyl, wherein said phenyl group can either be unsubstituted or substituted with 1-3 substituents 5 independently selected from the group consisting of C₁₋₄alkyl, OH, O(C₁₋₄alkyl), NH₂, NH(C₁₋₄alkyl), NH(C₁₋₄alkyl)₂, halo, CN, NO₂, CO_2H , $CO_2(C_{1-4}alkyl)$, C(O)H, and $C(O)(C_{1-4}alkyl)$; R³ is selected from the group consisting of hydrogen, fluoro, chloro, bromo, iodo, cyano, NRaRc, ORa, C(=O)Ra, CO2Rc, CONRaRc, SRa, S(=O)Ra, 10 SO₂R^a, C₁₋₁₀alkyl, C₂₋₁₀alkenyl, C₂₋₁₀alkynyl, C₃₋₇cycloalkyl, 4-7 membered heterocycloalkyl, cycloalkylalkyl, aryl, heteroaryl, arylalkyl, and heteroarylalkyl, wherein said alkyl, alkenyl, alkynyl, cycloalkyl, aryl and heteroaryl groups are either unsubstituted or independently substituted with 1, 2 or 3 groups selected from fluoro, chloro, bromo, 15 iodo, cyano, ORa, NRaRc, O(C=O)Ra, O(C=O)NRaRc, NRa(C=O)Rc, NRa(C=O)ORc, C(=O)Ra, CO2Ra, CONRaRc, CSNRaRc, SRa, S(O)Ra, SO₂Ra, SO₂NRaRc, YRd, and ZYRd; R⁴ is selected from the group consisting of hydrogen, hydroxy, amino, methyl, CF₃, fluoro, chloro, and bromo; 20 R⁵ and R⁶ are each independently selected from the group consisting of hydrogen, fluoro, chloro, bromo, methyl, amino, ORb, ORa, O(C=O)Rc, O(C=O)ORc, and NH(C=O)Rc; R⁷ is selected from the group consisting of hydrogen, OR^b, NR^bR^c, fluoro, chloro, bromo, iodo, cyano, nitro, C_{1-6} alkyl, C_{2-6} alkenyl, CF_3 , and CHF_2 ; 25 R⁸ and R⁹ are each independently selected from the group consisting of hydrogen, C₁₋₆alkyl, C₂₋₆alkenyl, and C₂₋₆alkynyl, or R⁸ and R⁹, when taken together with the carbon atom to which they are attached, form a 3-5 membered cycloalkyl ring, or R⁸ and R⁹, when taken together with the carbon atom to which they 30 are attached, form a carbonyl group; R^{10} is selected from the group consisting of hydrogen, C_{1-10} alkyl, C_{2-10} alkenyl, C_{2-10}

or R¹ and R², when taken together, form a C₁₋₆ alkylidene group,

10alkynyl, C₃₋₆cycloalkyl, cycloalkylalkyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl, wherein said alkyl, alkenyl, alkynyl, cycloalkyl,

can be optionally substituted with a group selected from chloro, bromo, iodo, ORb, SRb, C(=O)Rb, or 1-5 fluoro. or R¹⁰ and R¹, when taken together with the three intervening carbon 5 atoms to which they are attached, form a 5-6 membered cycloalkyl ring which can be optionally substituted C₁₋₆alkyl; R^{11} is selected from the group consisting of hydrogen and $C_{1\text{--}4}$ alkyl; R^a is selected from the group consisting of hydrogen, C_{1-10} alkyl, and phenyl, wherein said alkyl group can be optionally substituted with a group 10 selected from hydroxy, amino, O(C₁₋₄alkyl), NH(C₁₋₄alkyl), N(C₁₋₄alkyl), 4alkyl)2, phenyl, or 1-5 fluoro, and wherein said phenyl groups can either be unsubstituted or substituted with 1-3 substituents independently selected from the group consisting of C_{1-4} alkyl, OH, O(C_{1-4} alkyl), NH2, NH(C_{1-4} alkyl), NH(C_{1-4} 15 4alkyl)2, halo, CN, NO2, CO2H, CO2(C1-4alkyl), C(O)H, and $C(O)(C_{1-4}alkyl);$ R^b is selected from the group consisting of hydrogen, C_{1-10} alkyl, benzyl and phenyl, wherein said phenyl group can either be unsubstituted or substituted with 1-3 substituents independently selected from the group consisting 20 of C₁₋₄alkyl, OH, O(C₁₋₄alkyl), NH₂, NH(C₁₋₄alkyl), NH(C₁₋₄ 4alkyl)2, halo, CN, NO2, CO2H, CO2(C1-4alkyl), C(O)H, and $C(O)(C_{1-4}alkyl);$ R^c is selected from the group consisting of hydrogen, C₁₋₁₀alkyl and phenyl, wherein said phenyl group can either be unsubstituted or substituted with 1-3 25 substituents independently selected from the group consisting of C₁₋ 4alkyl, OH, O(C₁₋₄alkyl), NH₂, NH(C₁₋₄alkyl), NH(C₁₋₄alkyl)₂, halo, CN, NO2, CO2H, CO2(C1-4alkyl), C(O)H, and C(O)(C1-4alkyl); or Ra and Rc, whether or not on the same atom, can be taken together 30 with any attached and intervening atoms to form a 4-7 membered ring: R^d is selected from the group consisting of NR^bR^c, OR^a, CO₂R^a, O(C=O)R^a, CN, NRc(C=O)Rb, CONRaRc, SO2NRaRc, and a 4-7 membered Nheterocycloalkyl ring that can be optionally interrupted by O, S, NRC, or C=O;

cycloalkylalkyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl groups

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Y is selected from the group consisting of CR^bR^c, C₂₋₆ alkylene and C₂₋₆ alkenylene, wherein said alkylene and alkenylene linkers can be optionally interrupted by O, S, or NR^c;

Z is selected from the group consisting of O, S, NR c , C=O, O(C=O), (C=O)O, NR c (C=O) or (C=O)NR c ;

and the pharmaceutically acceptable salts thereof.

2. A compound of the formula:

$$R^{5}$$
 R^{6}
 R^{7}
 R^{8}
 R^{9}
 R^{10}
 R^{11}

wherein X is selected from the group consisting of O and N-ORa;

 R^1 is selected from the group consisting of hydrogen and C_{1-6} alkyl, wherein said alkyl group is either unsubstituted or substituted with a group selected from OR^c or $C(=O)R^c$;

 R^2 is selected from the group consisting of hydrogen, hydroxy, iodo, and $C_{1\text{-}6}$ alkyl, wherein said alkyl group is either unsubstituted or substituted with a group selected from OR^c or $C(=O)R^c$;

 R^3 is selected from the group consisting of hydrogen, chloro, bromo, iodo, cyano, C_{1-10} alkyl, C_{2-10} alkenyl, aryl and heteroaryl, wherein said alkyl, alkenyl, aryl and heteroaryl groups are either unsubstituted or independently substituted with 1, 2 or 3 groups selected from fluoro, chloro, bromo, iodo, cyano, OR^a , NR^aR^c , $C(=O)R^a$, CO_2R^c , $NR^aC(=O)R^c$, $CONR^aR^c$, $CSNR^aR^c$, SR^a , YR^d , and ZYR^d ;

 R^4 is selected from the group consisting of hydrogen, fluoro, hydroxy and methyl; R^5 and R^6 are each independently selected from the group consisting of hydrogen, fluoro, $O(C=O)R^c$ and OR^a ;

 R^7 is selected from the group consisting of hydrogen, NR^bR^c , chloro, bromo, nitro and C_{1-6} alkyl;

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 R^8 and R^9 are each independently selected from the group consisting of hydrogen and $C_{1\text{-}6}$ alkyl; or R^8 and R^9 , when taken together with the carbon atom to which they are attached, form a carbonyl group;

5 R¹⁰ is selected from the group consisting of hydrogen, C₁₋₁₀alkyl, C₂₋₁₀alkenyl, C₃₋₆cycloalkyl and cycloalkylalkyl, wherein said alkyl, alkenyl, cycloalkyl and cycloalkylalkyl groups can be optionally substituted with a group selected from OR^b, SR^b, C(=O)R^b, or 1-5 fluoro; or R¹⁰ and R¹, when taken together with the three intervening carbon atoms to which they are attached, form a 5-6 membered cycloalkyl ring which can be optionally substituted C₁₋₆alkyl;

 R^{11} is selected from the group consisting of hydrogen and $C_{1\text{--}4}$ alkyl;

 R^a is selected from the group consisting of hydrogen, C_{1-10} alkyl, and phenyl, wherein said alkyl group can be optionally substituted with a group selected from hydroxy, amino, $O(C_{1-4}$ alkyl), $NH(C_{1-4}$ alkyl), $N(C_{1-4}$ alkyl), phenyl, or 1-5 fluoro;

 R^b is selected from the group consisting of hydrogen, C_{1-10} alkyl, benzyl and phenyl; R^c is selected from the group consisting of hydrogen and C_{1-10} alkyl and phenyl; or R^a and R^c , whether or not on the same atom, can be taken together with any attached and intervening atoms to form a 4-7 membered ring;

R^d is selected from the group consisting of NR^bR^c, OR^a, CO₂R^a, O(C=O)R^a, CN, NR^c(C=O)R^b, CONR^aR^c, SO₂NR^aR^c, and a 4-7 membered N-heterocycloalkyl ring that can be optionally interrupted by O, S, NR^c, or C=O;

Y is selected from the group consisting of CR^bR^c, C₂₋₆ alkylene and C₂₋₆ alkenylene, wherein said alkylene and alkenylene linkers can be optionally interrupted by O, S, or NR^c;

Z is selected from the group consisting of O, S, NR^c, C=O, O(C=O), (C=O)O, NR^c(C=O) or (C=O)NR^c;

- and the pharmaceutically acceptable salts thereof.
 - 3. A compound according to Claim 2, wherein X is selected from the group consisting of O, N-OH and N-OCH₃, and the pharmaceutically acceptable salts thereof.

4. A compound according to Claim 3, wherein R^6 is selected from the group consisting of OR^a and $O(C=O)R^c$ and the pharmaceutically acceptable salts thereof.

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- 5. A compound according to Claim 4, wherein R^3 is selected from the group consisting of hydrogen, chloro, bromo, iodo, cyano, C_{1-10} alkyl, aryl and heteroaryl, wherein said alkyl, aryl and heteroaryl groups are either unsubstituted or independently substituted with 1, 2 or 3 groups selected from fluoro, chloro, bromo, cyano, NR^aR^c , $C(=O)R^a$, CO_2R^c , $CONR^aR^c$, SR^a , YR^d , and ZYR^d , and the pharmaceutically acceptable salts thereof.
- 6. A compound according to Claim 1 selected from the group consisting of:

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4-bromo-7-hydroxy-9a-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

9a-butyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

20 (3E)-9a-butyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one oxime;

9a-[(1*E*)-1-butenyl]-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

4-bromo-9a-butyl-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

4-bromo-9a-butyl-3-methylene-2,3,9,9a-tetrahydro-1*H*-fluoren-7-ol;

9a-butyl-4-cyano-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

30 4-benzyl-9a-butyl-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

9a butyl-7-hydroxy-4-(2-thienyl)-1,2,9,9a-tetrahydro-3*H*-fluoren-3-ene;

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9a-butyl-7-hydroxy-4- $\{4-[2-(1-piperidinyl)ethoxy]phenyl\}-1,2,9,9a-tetrahydro-3$ *H*-fluoren-3-one hydrochloride;

9a-butyl-7-hydroxy-4-(4-hydroxyphenyl)-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

(2E)-3-[4-(9a-butyl-7-hydroxy-3-oxo-2,3,9,9a-tetrahydro-1H-fluoren-4-yl)phenyl]-2-propenoic acid;

9a-butyl-7-hydroxy-8-methyl-1,2,9,9a-3*H*-tetrahydro-fluoren-3-one;

4-bromo-9a-butyl-7-hydroxy-8-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

9a butyl-4,8-dimethyl-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

9a-butyl-8-chloro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

(2SR,9aSR)-9a-butyl-2,4-dimethyl-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

(2*SR*,9a*RS*)-9a-butyl-2,4-dimethyl-7-hydroxy-2-propyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

9a-butyl-7-hydroxy-2,2,4-trimethyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

(2*SR*,9a*RS*)-9a-butyl-7-hydroxy-2-iodo-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

(2SR, 9aRS)-9a-butyl-2,7-dihydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

(2RS,9aSR)-9a-butyl-7-hydroxy-2-(2-hydroxyethyl)-4-methyl-1,2,9,9a-tetrahydro-3*H*-30 fluoren-3-one;

(2SR,9aSR)-2-allyl-9a-butyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

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(2RS,9aSR)-9a-butyl-7-hydroxy-2-(3-hydroxy-2-oxopropyl)-4-methyl-1,2,9,9a-
                   tetrahydro-3H-fluoren-3-one;
                  (9SR,9aSR)-7-hydroxy-4-methyl-9-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
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                  9a-butyl-8-chloro-7-hydroxy-4-(trifluoromethyl)-1,2,9,9a-tetrahydro-3H-fluoren-3-butyl-8-chloro-7-hydroxy-4-(trifluoromethyl)-1,2,9,9a-tetrahydro-3H-fluoren-3-butyl-8-chloro-7-hydroxy-4-(trifluoromethyl)-1,2,9,9a-tetrahydro-3H-fluoren-3-butyl-8-chloro-8-butyl-8-chloro-8-butyl-8-chloro-8-butyl-8-chloro-8-butyl-8-chloro-8-butyl-8-chloro-8-butyl-8-buty
                  one;
                  4-acetyl-9a-butyl-8-chloro-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
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                 9a-butyl-8-chloro-4-cyano-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
                 9a-butyl-4-ethyl-6-fluoro-7-hydroxy-8-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
                 9a-butyl-8-chloro-6-fluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
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                9a-butyl-8-chloro-4-ethyl-6-fluoro-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
                4-bromo-9a-butyl-8-chloro-6-fluoro-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
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                9a-butyl-8-chloro-6-fluoro-7-hydroxy-4-(trifluoromethyl)-1,2,9,9a-tetrahydro-3H-
                fluoren-3-one:
                2-hydroxy-5-methylgibba-1(10a),2,4,4b-tetraen-6-one;
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                4-bromo-9a-butyl-3-oxo-2,3,9,9a-1H-fluoren-7-yl pivalate;
                7-hydroxy-4,9a-dimethyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
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               9a-ethyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
               7-hydroxy-4-methyl-9a-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one:
               7-hydroxy-9a-isobutyl-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
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9a-butyl-4-ethyl-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
                                       9a-butyl-7-hydroxy-4-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
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                                      4,9a-dibutyl-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
                                      9a-butyl-4-chloro-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
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                                      9a-butyl-7-hydroxy-4-iodo-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
                                     9a-butyl-7-hydroxy-4-trifluoromethyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
                                     9a-butyl-7-hydroxy-4-phenyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
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                                    9a-butyl-4-(2-furyl)-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
                                   7-hydroxy-9a-(3-iodopropyl)-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
                                 7-hydroxy-4-methyl-9a-(2-methyl-1-propenyl)-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
   20
                                 9a-butyl-4-\{4-[2-(dimethylamino)ethoxy]phenyl\}-7-hydroxy-1,2,9,9a-tetrahydro-3\mathit{H-1}-1,2,9,9a-tetrahydro-3\mathit{H-2}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,0a-tetrahydro-3\mathit{H-3}-1,2,9,0a-tetrahydro-3\mathit{H-3}-1,2,9,0a-tetrahydro-3\mathit{H-3}-1,2,9,0a-tetrahydro-3\mathit{H-3}-1,2,9,0a-tetrahydro-3\mathit{H-3}-1,2,9,0a-tetrahydro-3\mathit{H-3}-1,2,9,0a-tetrahydro-3\mathit{H-3}-1,2,9,0a-tetrahydro-3\mathit{H-3}-1,2,9,0a-tetrahydro-3\mathit{H-3}-1,2,9,0a-tetrahydro-3\mathit{H-3}-1,2,9,0a-tetrahydro-3\mathit{H-3}
                                  fluoren-3-one hydrochloride;
 25
                                 9a-butyl-4-{4-[2-(diethylamino)ethoxy]-phenyl}-7-hydroxy-1,2,9,9a-tetrahydro-3H-
                                 fluoren-3-one hydrochloride;
                                9a-butyl-7-hydroxy-4-\{4-[2-(1-pyrrolidinyl)ethoxy]phenyl\}-1,2,9,9a-tetrahydro-3\mathit{H-1}-1,2,9,9a-tetrahydro-3\mathit{H-2}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3}-1,2,9,9a-tetrahydro-3\mathit{H-3
                                fluoren-3-one hydrochloride;
30
                                9a-butyl-7-hydroxy-4-{4-[2-(4-morpholinyl)ethoxy]phenyl}-1,2,9,9a-tetrahydro-3H-
```

fluoren-3-one hydrochloride;

- 9a-butyl-4-{4-[3-(dimethylamino)propoxy]-phenyl}-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one hydrochloride;
- 9a-butyl-7-hydroxy-4-{4-[3-(1-piperidinyl)propoxy]phenyl}-1,2,9,9a-tetrahydro-3*H*-5 fluoren-3-one hydrochloride;
 - (3E)-9a-butyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one O-methyloxime;
- 10 (2SR,9aSR)-9a-butyl-2-ethyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - (2SR,9aSR)-9a-butyl-7-hydroxy-2-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 15 (2*SR*,9a*SR*)-9a-butyl-7-hydroxy-4-methyl-2-propyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - (2SR,9aSR)-4,9a-dibutyl-7-hydroxy-2-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 20 (2SR,9aSR)-4-bromo-9a-butyl-7-hydroxy-2-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
 - (2RS,9aSR)-9a-butyl-7-hydroxy-2-(2-oxoethyl)-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 25 (2SR,9aSR)-2,9a-dibutyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one; (2RS,9aRS)-9a-butyl-7-hydroxy-2,4-dimethyl-2-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 9a-butyl-7-hydroxy-2,2-dipropyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;9a-butyl-7-hydroxy-4-methyl-2,2-dipropyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

- (2SR,9aRS)-9a-butyl-2,7-dihydroxy-4-methyl-2-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 4-bromo-9a-butyl-2,2-diethyl-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - (2SR,9aSR)-7-hydroxy-2,4,9a-trimethyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
 - (2SR,9aSR)-7-hydroxy-4,9a-dimethyl-2-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 10 (2*SR*,9a*SR*)-9a-butyl-8-chloro-2-ethyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - 8-chloro-9a-ethyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 8-bromo-9a-ethyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - 9a-ethyl-7-hydroxy-4,8-dimethyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - 8-chloro-7-hydroxy-4-methyl-9a-propyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- 8-bromo-7-hydroxy-4-methyl-9a-propyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - 7-hydroxy-4,8-dimethyl-9a-propyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- 8-chloro-7-hydroxy-4-methyl-9a-[(1*E*)-1-propenyl]-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - 8-bromo-9a-butyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- 30 9a-butyl-7-hydroxy-4,8-dimethyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - 9a-butyl-7-hydroxy-4-methyl-8-nitro-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - 8-amino-9a-butyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

9a-butyl-7-hydroxy-4-(4-hydroxyphenyl)-8-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

- 9a-butyl-7-hydroxy-8-methyl-4-{4-[2-piperidinyl)-ethoxy]phenyl}-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - 4-bromo-7-hydroxy-9a-propyl-1*H*-fluorene-3,9(2*H*,9a*H*)-dione;
- 4,8-dibromo-7-hydroxy-9a-propyl-1*H*-fluorene-3,9(2*H*,9a*H*)-dione;
- 4-bromo-9a-butyl-7-hydroxy-6-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 9a-butyl-8-chloro-4-methyl-3-oxo-2,3,9,9a-tetrahydro-1*H*-fluoren-7-yl pivalate;
- 9a-butyl-6,8-difluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 9a-butyl-4-ethyl-6,8-difluoro-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- 8-bromo-9a-butyl-4-chloro-8-difluoro-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

4-bromo-9a-butyl-6,8-difluoro-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

- 9a-butyl-4,8-dibromo-6-fluoro-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 25
 9a-ethyl-6-fluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 9a-ethyl-6,8-difluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- 8-chloro-9a-ethyl-6-fluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 8-bromo-9a-ethyl-6-fluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 9a-ethyl-6-fluoro-7-hydroxy-4,8-dimethyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

4,9a-diethyl-6,8-difluoro-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 4-bromo-8-chloro-9a-ethyl-6-fluoro-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 5 4-bromo-8-chloro-9a-(cyclopentylmethyl)-6-fluoro-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one: 9a-ethyl-5-fluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one; 10 8-bromo-9a-ethyl-5-fluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 9a-ethyl-6,7-dihydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 8-bromo-9a-ethyl-6,7-dihydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 15 9a-ethyl-6-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 9a-ethyl-6-hydroxy-4-vinyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 20 4-allyl-9a-ethyl-6-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 2-hydroxy-5-methyl-7,8,9,10-tetrahydro-7,10a-methanocycloocta[a]inden-6(11H)one; 25 7-amino-4-bromo-9a-butyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 7-amino-4,8-dibromo-9a-ethyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one:

7. A pharmaceutical composition comprising a compound according to Claim 1 and a pharmaceutically acceptable carrier.

and the pharmaceutically acceptable salts thereof.;

- 8. A pharmaceutical composition made by combining a compound according to Claim 1 and a pharmaceutically acceptable carrier.
- 9. A process for making a pharmaceutical composition
 5 comprising combining a compound according to Claim 1 and a pharmaceutically acceptable carrier.
- 10. A method of eliciting an estrogen receptor modulating effect in a mammal in need thereof, comprising administering to the mammal a therapeutically effective amount of a compound according to Claim 1.
 - 11. The method according to Claim 10 wherein the estrogen receptor modulation effect is an estrogen receptor antagonizing effect.
- 15 12. The method according to Claim 11 wherein the estrogen receptor antagonizing effect is an ERα receptor antagonizing effect.
 - 13. The method according to Claim 11 wherein the estrogen receptor antagonizing effect is an ERβ receptor antagonizing effect.
 - 14. The method according to Claim 11 wherein the estrogen receptor antagonizing effect is a mixed ERα and ERβ receptor antagonizing effect.
- The method according to Claim 10 wherein the estrogen receptor modulation effect is an estrogen receptor agonizing effect.
 - 16. The method according to Claim 15 wherein the estrogen receptor agonizing effect is an ERα receptor agonizing effect.
- 30 17. The method according to Claim 15 wherein the estrogen receptor agonizing effect is an ER β receptor agonizing effect.
 - 18. The method according to Claim 15 wherein the estrogen receptor agonizing effect is a mixed ER α and ER β receptor agonizing effect.

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- 19. A method of treating or preventing hot flashes in a mammal in need thereof by administering to the mammal a therapeutically effective amount of a compound according to Claim 1.
- 5 20. A method of treating or preventing anxiety in a mammal in need thereof by administering to the mammal a therapeutically effective amount of a compound according to Claim 1.
- 21. A method of treating or preventing depression in a mammal in need thereof by administering to the mammal a therapeutically effective amount of a compound according to Claim 1.